

Nycal™ 1850RMC40

Polyamide 6
Technical Polymers, LLC

Message:

Nycal™ 1850RMC40 is a Polyamide 6 (Nylon 6) material filled with 40% glass\mineral. It is available in North America for injection molding. Primary attribute of Nycal™ 1850RMC40: Flame Rated.

General Information			
Filler / Reinforcement	Glass\Mineral,40% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	128	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.0 to 4.0	%	ASTM D638
Flexural Modulus (23°C)	7930	MPa	ASTM D790
Flexural Strength (23°C)	200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	210	°C	
1.8 MPa, Unannealed	202	°C	
Peak Melting Temperature	220	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	73.9 to 79.4	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	260 to 293	°C	
Mold Temperature	65.6 to 98.9	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.103 to 0.689	MPa	
Screw Speed	50 to 100	rpm	
Clamp Tonnage	3.4 to 5.5	kN/cm ²	
Cushion	3.18 to 12.7	mm	
Screw L/D Ratio	20.0:1.0		

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Recommended distributors for this material

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